

MATERIAL SAFETY DATA SHEET

PHENOLPHTHALEIN, 0.5%
CAROLINA BIOLOGICAL

Revised: 16/07/04
Replaces: 09/05/00
Printed: 20/05/08

1. PRODUCT DESCRIPTION

Product Name: Phenolphthalein, 0.5%
Product Code(s): 87-9963, 87-9965, 84-0935
Size: 120 ml, 500 ml
Chemical Name: Chemical is mixture.
CAS Number: None assigned to this mixture
Formula: See section 2
Synonyms: None known
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components:
Ethyl alcohol (CAS#64-17-5)-48%
Methyl isobutyl ketone(Denaturant)(CAS#108-10-1)-2%
Hexane(Denaturant)CAS#110-54-3)-1%

TLV and PEL units:

Ethyl alcohol- ACGIH-TLV -1000 ppm(TWA)
OSHA-PEL -1000 ppm(TWA)

Methyl isobutyl ketone-ACGIH-TLV- 50 ppm(TWA), STEL-75 ppm
OSHA-PEL -50 ppm(TWA), STEL-75 ppm

Phenolphthalein- None established

Hexane- ACGIH-TLV -50 ppm(TWA)
OSHA-PEL - 50 ppm(TWA)

3. HAZARD IDENTIFICATION

Emergency Overview: Clear colorless liquid with characteristic alcohol odor.

May cause irritation to eyes and skin.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - If swallowed, if conscious, give plenty of water.

Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): 54F

NFPA Rating: Health: 2

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Fire: 3
Reactivity: 0

Extinguisher Media:

Use media suitable to extinguish surrounding fire.
Flammable Limits in Air % by Volume: Ethyl alcohol:LEL-3.3%,UEL-19%
Autoignition Temperature: Ethyl alcohol - 793F
Special Firefighting Procedures:
Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Vapors are heavier than air and can travel to a source of ignition and flash back.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Eliminate all sources of ignition.
Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Material should be kept in an area suitable for the storage of highly flammable liquids. Bond and ground containers when transferring liquid.
Other Precautions: Keep oxidizing materials and strong acids away.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):

A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Preferred
Mechanical(General): Yes
Special: Generally not needed
Other: No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight:	Does not apply
Melting Point:	No information available
Boiling Point:	173.3-176.4F
Vapor Pressure:	40 mmHg at 68F
Vapor Density(Air=1):	1.5
Specific Gravity(H2O=1):	.815 at 60F
Percent Volatile by Volume:	95%
Evaporation Rate(H2O=1):	1.70
Solubility in Water:	Miscible
Appearance and Odor:	Clear, colorless liquid

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10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Heat, sparks, and open flame.

Incompatibility(Materials to Avoid): Oxidizers

Hazardous Decomposition Products: Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide.

Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: Mixture has not been thoroughly evaluated. Data is listed for individual components.

Ethyl alcohol -LD50(oral-rat)-7,060 mg/kg,

LC50(ihl-rat)- 20,000 ppm/10H

Methyl isobutyl ketone- LD50(oral-rat)- 5,080 mg/kg,

LC50(ihl-rat)- 8,000/4H

Hexane- LD50(oral-rat)- 28,710 mg/kg,

TCL(ihl-human)- 5,000 ppm/10M

Phenolphthalein - LDLo(ipr-rat) 500 mg/kg

Effects of Overexposure:

Acute: See section 3

Chronic:

Ethyl alcohol: Mutation data cited. Not listed as causing cancer by IARC,

NTP, or OSHA

Methyl isobutyl ketone: No information available

Hexane: Not listed as causing cancer by IARC, NTP, or OSHA

Conditions Aggravated by Overexposure: Pre-existing conditions of the skin or

liver may be aggravated.

Target Organs: Skin and liver

Primary Route(s) of Entry: Inhalation, skin absorption

12. ECOLOGICAL DATA

EPA Waste Numbers: None

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal,

State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Description: Flammable liquid, n.o.s. (Contains Ethanol, Methyl isobutyl ketone, Hexane), 3, UN1993, II

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute, Fire

		SARA Sec. 313		
	SARA EHS	Chemicals	CERCLA	RCRA
Product or	Sec. 302	Name Chemical	Sec. 103	Sec.
Components	TPQ	List Category	RQ lbs.	
261.33				

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Ethyl alcohol	No	No	No	No	No
Methyl isobutyl ketone	No	Yes	No	5000	
Yes(Ignitable)					
Hexane	No	No	No	No	No

16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists

CAS Number..Chemical Abstracts Service Number

CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act

DOT.....U.S. Department of Transportation

IARC.....International Agency of Research on Cancer

mppcf.....million particles per cubic foot

N/A.....Not Available

NTP.....National Toxicology Program

OSHA.....Occupational Safety and Health Administration

PEL.....Permissible Exposure Limit

ppm.....parts per million

RCRA.....Resource Conservation and Recovery Act

SARA.....Superfund Amendments and Reauthorization Act

TLV.....Threshold Limit Value

TSCA.....Toxic Substances Control Act